

MECHANICAL ENGINEERING TECHNOLOGY

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Mechanical Engineering Technicians help engineers design, develop, test, and manufacture mechanical devices, including tools, engines, and machines. They may make sketches and rough layouts, record and analyze data, make calculations and estimates, and report their findings. Often Mechanical Engineering Technicians design equipment and make working models to test. When involved in manufacturing, these technicians frequently determine the strength, quality, quantity and cost of materials. Technicians who specialize in Mechanical Design may take the rough sketches produced by an engineer and convert them into detailed drawings. They might also provide illustrations and exploded views of machinery for operating or maintenance manuals. Mechanical Engineering Technicians also help engineers design, develop, test and manufacture machinery, industrial robotics and other equipment.

The curriculum provides the skills to become a Mechanical Engineering Technician. Practical, hands-on, learning experience is incorporated with principle and theory. Students learn how to make sketches and rough layouts, record data, tabulate calculations, analyze results and write informative reports. Those interested in the MET major should have an aptitude for mathematics, science and technical work. Upon completion of the coursework, the student will receive an Associate of Applied Science Degree in Mechanical Engineering Technology.

Employment opportunities are excellent for individuals who have completed a two-year program in mechanical engineering technology. Completion of the degree prepares the graduate for entry into today's global industrial world in a number of job classifications such as design technicians, detailers, draftsmen, engineering technicians, lab technicians, metallurgical technicians, quality control technicians, troubleshooters and test technicians. Graduates have the solid foundation needed to continue on to a bachelors degree in engineering technology, engineering science, and eventually become a licensed Professional Engineer pursuant to the Ohio Revised Code.

Mechanical Engineering Technology Major

Associate of Applied Science Degree

Structured Course Sequence (4 Semester Plan)

First Year

First Semester		Hours
COM 1110	English Composition	3
MET 1000	Engineering Graphics with AutoCAD	4
MET 1110	Manufacturing Processes	3
MTH 1370	College Algebra	4
PHY 1120	Physics I	4
SDE 1010	First Year Experience	1
Term Hours		19

Second Semester

COM 1140	Technical Writing	3
MET 1020	Material Science	3

MET 1130	Statics	3
MET 2440	Computer Aided Design	3
MTH 1430	Trigonometry	3
PHY 1130	Physics II	4
Term Hours		19

Second Year

First Semester

CPT 1120	Introduction to VB Programming	3
EET 1110	Circuit Analysis I	3
FMS 2210	CAM/CNC Machining I	3
MET 2210	Strength of Materials	3
MET 2310	Fluid Power	3
MET 2991	Field Experience	1
Term Hours		16

Second Semester

COM 2110	Public Speaking	3
CPT 1250	Computer Applications in the Workplace	3
MET 2970	MET Department Capstone	2
PSY 1010 or SOC 1010	General Psychology or Sociology	3
Term Hours		11
Total Hours		65

 Portfolio course

 Capstone course

See here Portfolio and Capstone information.

Prerequisites:

Students should check course prerequisites before registering.

The Rhodes State College Mechanical Engineering Technology (MET) program is accredited by:

*Engineering Technology Accreditation Commission of ABET
415 North Charles Street, Baltimore, MD 21202-4012
(410) 347-7700
website: <http://www.abet.org>*